

Project Title	Funding	Strategic Plan Objective	Institution
Prospective Evaluation of Air Pollution, Cognition, and Autism from Birth Onward	\$6,676	Q3.S.H	University of Southern California
2015 Cerebellum GRC	\$10,000	Q7.K	GORDON RESEARCH CONFERENCES
Targeting Environment and Neuro-Developmental Risks-2nd Workshop	\$20,000	Q3.Other	University of California, Davis
Transcriptional Regulators in Normal Human Brain Development and Autism	\$21,100	Q2.Other	University of California, Los Angeles
PPAR/SIRT1 PATHWAY IN C. ELEGANS	\$22,740	Q2.S.D	Children's Hospital of Philadelphia
Improving Transition Outcomes in ASD using COMPASS	\$27,066	Q6.L.C	University of Kentucky
FMRP and Pumilio co-regulate synaptogenesis by controlling Neuroglian expression	\$27,480	Q2.S.D	Vanderbilt University
Sensory contributions to autism spectrum disorders and links to social responsiveness	\$27,778	Q2.Other	Vanderbilt University
Gene by Environment Influences on Forebrain Development	\$29,500	Q3.S.K	University of Southern California
Accelerating the diagnosis of autism spectrum disorder in rural Idaho via evidence-based Smartphone technology	\$30,730	Q1.S.C	CARING TECHNOLOGIES, INC.
Structural Polarity Influences Terminal Placement and Competition in Formation of the Calyx of Held	\$32,714	Q2.Other	WEST VIRGINIA UNIVERSITY
Effects of advanced paternal age on germline genome stability	\$33,479	Q3.S.K	University of North Carolina
Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$33,503	Q2.Other	UPSTATE MEDICAL UNIVERSITY
Cortactin and Spine Dysfunction in Fragile X	\$33,763	Q2.S.D	University of California, Irvine
Studies of genetic and metabolic disorders, autism and premature aging	\$34,275	Q4.S.B	National Institutes of Health
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$35,232	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE
A Novel Essential Gene for Human Cognitive Function	\$35,474	Q2.S.D	Harvard University
Computational Measurement of Social Communication Dynamics in Adolescents with Autism Spectrum Disorder	\$35,580	Q1.L.C	UNIVERSITY OF CINCINNATI
Timed mRNA translation events in neocortical development and neurodevelopmental disorders	\$39,720	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Connectivity of the Posterior Cerebellum	\$39,720	Q2.Other	PRINCETON UNIVERSITY
Early parent-infant coordination and later language in infants at risk for ASD	\$43,120	Q1.L.A	University of Pittsburgh
Evaluation of the START Crisis Prevention and Intervention Program	\$43,120	Q4.L.D	Johns Hopkins University
The genetic basis underlying the phenotype heterogeneity of the 16p11.2 CNV	\$46,136	Q3.S.A	University of Washington
Understanding the Role of Epac2 in Cognitive Function	\$48,120	Q2.Other	Northwestern University

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Development of the Functional Touch Circuit	\$52,406	Q2.Other	Harvard University
Investigating the role of Tsc1 in neocortical circuit assembly	\$52,406	Q2.S.D	STANFORD UNIVERSITY
Gene-brain-environment interactions: Predicting social skill heterogeneity in ASD	\$52,406	Q3.Other	University of California, Los Angeles
GABA Epigenomes in Autism	\$52,947	Q3.S.J	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
The flexibility of individuation and ensemble representation	\$54,194	Q2.Other	Northwestern University
Development of auditory circuits in mouse models of autism	\$54,194	Q2.Other	University of Maryland
Identification of genetic pathways that regulate neuronal circuits in C. elegans	\$54,194	Q2.Other	University of California, San Diego
The role of the epigenetic regulator Brd4 in neuronal function and autism	\$54,194	Q3.S.J	ROCKEFELLER UNIVERSITY
Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation	\$55,796	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Investigating role of neuroligin-1 mutation in autism using human induced neurons	\$56,042	Q2.Other	STANFORD UNIVERSITY
Artifacts as Windows to Other Minds: Social Reasoning In Typical and ASD Children	\$56,042	Q2.Other	Boston University
Analysis of MEF2 in Cortical Connectivity and Autism-Associated Behaviors	\$56,042	Q2.S.D	McLean Hospital
PCBs interact with mTOR signaling to disrupt neuronal connectivity in zebrafish	\$56,042	Q3.S.K	University of California, Davis
THE CHARGE STUDY: CHILDHOOD AUTISM RISKS FROM GENETICS AND THE ENVIRONMENT	\$56,116	Q3.S.C	University of California, Davis
Research training and education core	\$58,341	Q7.K	Emory University
Infant Social Development: From Brain to Behavior	\$58,694	Q1.L.A	Yale University
Role of Neuroligin in Synapse Formation and Maintenance	\$59,966	Q2.Other	STANFORD UNIVERSITY
Optogenetic treatment of social behavior in autism	\$60,236	Q2.Other	University of California, Los Angeles
3/4 - The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$65,732	Q3.S.A	University of Pittsburgh
Alterations to corticothalamic circuitry in a mouse model of autism	\$74,000	Q2.Other	LOUISIANA STATE UNIV A&M COL BATON ROUGE
Developing an Automated Emotion Training System	\$74,163	Q4.Other	VIRGINIA POLYTECHNIC INST AND ST UNIV
Mapping Clinical Outcomes to Preference-based Measures from the NDAR Database	\$74,500	Q5.L.B	University of Arkansas
Stable Zebrafish Models of Autism Spectrum Disorder	\$75,250	Q4.S.B	University of Miami

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A feasibility study for prevention and safety training for children with autism	\$76,415	Q4.S.H	Emory University
BDNF regulation of the cortical neuron transcriptome	\$76,792	Q2.Other	University of Colorado, Denver
Data Mining for Autism Endophenotypes in a Large Resting-State fMRI Repository	\$76,856	Q1.L.B	VIRGINIA POLYTECHNIC INST AND ST UNIV
Data management and analysis core	\$77,861	Q7.Other	Emory University
Axonal Ultrastructure of Temporal White Matter in Autism	\$78,250	Q2.Other	University of California, Davis
The effect of maternal obesity and inflammation on neuronal and microglial functi	\$78,250	Q2.S.A	MAYO CLINIC JACKSONVILLE
FMRP regulates the pruning of cell-to-cell connections in the neocortex	\$79,500	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Striatal Specific Alterations in Translation, Synaptic Function, and Behavior in	\$81,581	Q2.Other	New York University
Supplement to The Emergence and Stability of Autism in Fragile X Syndrome	\$82,061	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Shared and Distinct Developmental Pathways to ADHD and Autism Spectrum Disorder	\$82,062	Q2.S.E	University of California, Davis
THE CHARGE STUDY: CHILDHOOD AUTISM RISKS FROM GENETICS AND THE ENVIRONMENT	\$82,158	Q3.S.C	University of California, Davis
CRISPR/Cas9-Based Functional Characterization of ANK2 Mutations in ASD Neural Circuitry	\$84,431	Q2.S.G	Massachusetts General Hospital
Validity and Reliability of New Standard for Resting fMRI Data	\$84,750	Q2.Other	New York University
Piloting Treatment with Insulin-Like Growth Factor-1 in Phelan-McDermid Syndrome	\$84,750	Q4.L.A	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$90,000	Q2.Other	MAYO CLINIC ROCHESTER
Administrative Core/Leadership	\$90,133	Q7.Other	University of California, Davis
Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	\$92,578	Q2.S.D	Baylor College of Medicine
Alternative splicing-mediated mechanisms of cortical interneuron maturation and circuit integration	\$98,061	Q2.Other	New York University
Computational characterization of language use in autism spectrum disorder	\$99,966	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
Research, training and education	\$102,297	Q7.K	Boston University
Project 2: Perinatal Epigenetic Signature of Environmental Exposure	\$103,803	Q3.S.J	University of California, Davis
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$104,613	Q2.Other	UNIVERSITY OF FLORIDA

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Project 4: Calcium Signaling Defects in Autism (Pessah/Lein)	\$107,518	Q2.Other	University of California, Davis
Project 3: Immune Environment Interaction and Neurodevelopment	\$107,931	Q2.S.A	University of California, Davis
Facility Core: Analytical and Environmental Chemistry	\$110,969	Q7.Other	University of California, Davis
Neuroimaging genetics to study social cognitive deficits in ASD and schizophrenia	\$118,500	Q2.S.G	Massachusetts General Hospital
Brain Imaging Markers of Response to Intervention in Toddlers with Autism	\$120,482	Q4.S.F	University of Minnesota
Role of Autism Susceptibility Gene, TAOK2 kinase, and its novel substrates in Synaptogenesis	\$120,904	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Biological Analysis Core	\$121,537	Q7.J	University of California, Davis
Integrated treatments for core deficits in autism spectrum disorder	\$125,988	Q4.L.A	Rush University
Neurobehavioral Analysis Core	\$126,038	Q1.S.B	University of California, Davis
Brain Systems Underlying Episodic Memory for Social Stimuli in Childhood Autism	\$126,252	Q2.Other	STANFORD UNIVERSITY
Early Life Seizures Disrupt Critical Period Plasticity	\$135,045	Q2.S.E	University of Pennsylvania
IMAGING BRAIN FUNCTION IN CHILDREN WITH AUTISM SPECTRUM DISORDERS WITH DIFFUSE OPTICAL TOMOGRAPHY	\$141,211	Q2.Other	Washington University in St. Louis
Genomics Core	\$142,154	Q2.Other	University of California, San Diego
Endocannabinoids in social and repetitive behavioral domains	\$143,751	Q2.L.B	Vanderbilt University
Project 1: Epidemiology and the Environment in Autism (Hertz-Picciotto)	\$144,203	Q3.L.D	University of California, Davis
Maternal Diabetes during Pregnancy and Neurodevelopment in the Offspring	\$145,987	Q3.S.H	University of California, Los Angeles
Functional Analysis of Rare Variants in Genes Associated with Autism	\$147,905	Q4.S.B	Yale University
Tools for manipulating local protein synthesis in the brain	\$148,500	Q2.Other	UNIVERSITY OF TORONTO
Multimodal Imaging of Social Brain Networks in ASD	\$149,499	Q2.Other	SAN DIEGO STATE UNIVERSITY
Neural Circuits That Regulate Social Motivation in Autism	\$150,542	Q2.Other	University of North Carolina
Targeting System Xc- for the treatment of the Autism Spectrum Disorder subpopulations, Fragile X syndrome and Phelan-McDermid syndrome	\$151,366	Q4.S.B	PROMENTIS PHARMACEUTICALS, INC.
The ontogeny of social vocal engagement and its derailment in autism	\$152,052	Q1.L.A	Emory University
2/3 Treatment of Anxiety in Autism Spectrum Disorder	\$154,769	Q4.S.A	UNIVERSITY OF SOUTH FLORIDA

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The Role of Germline Mutation and Parental Age in Autism Spectrum Disorders	\$155,989	Q3.S.C	University of California, San Diego
Mechanisms underlying word learning in fragile X syndrome and nonsyndromic ASD	\$156,333	Q2.S.D	University of California, Davis
2/4-The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$157,618	Q3.S.A	BROAD INSTITUTE, INC.
Structural and Functional Neuroimaging of the Auditory System in Autism	\$158,038	Q2.Other	Children's Hospital of Philadelphia
Targeting the PI3K Enhancer PIKE to Reverse FXS-associated Phenotypes	\$160,000	Q2.S.D	Emory University
3/3-Sequencing Autism Spectrum Disorder Extended Pedigrees	\$160,000	Q3.L.B	University of Pennsylvania
Autism Spectrum Disorders and Depression: Shared Mechanisms in Brain and Behavior	\$160,115	Q2.S.E	Vanderbilt University
Direct Examination of Imitation-Based Learning in Autism	\$161,600	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER
Core B: Clinical Translational Core	\$163,674	Q7.N	Vanderbilt University
Epigenetic and Transcriptional Dysregulation in Autism Spectrum Disorder	\$164,472	Q3.S.J	University of California, Los Angeles
Evaluating Plasma and Urine Porphyrins as Biomarkers of ASD	\$164,726	Q1.L.A	BATTELLE CENTERS/PUB HLTH RES & EVALUATN
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$164,833	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
Population-Based Autism Genetics & Environment Study	\$165,663	Q3.L.D	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
The genomic bridge project (GBP)	\$168,600	Q2.S.G	Massachusetts General Hospital
PREDICTING PRESCHOOL PSYCHOPATHOLOGY WITH BRAIN CONNECTIVITY IN PRETERM NEONATES	\$169,998	Q2.L.B	Washington University in St. Louis
Brain Systems Supporting Learning and Memory in Children with Autism	\$170,779	Q2.Other	STANFORD UNIVERSITY
Mechanisms underlying word learning in children with ASD: Non-social learning and	\$172,195	Q2.Other	Boston University
Maximizing Biospecimen Collection from Children with Mental Health Conditions	\$172,728	Q2.S.C	GROUP HEALTH COOPERATIVE
Neural Phenotypes of Females with Autism Spectrum Disorder	\$173,011	Q2.S.B	University of California, Davis
Staff and School Factors Affecting Implementation of ASD Interventions in Schools	\$174,615	Q5.L.A	University of Washington
EEG-Based Assessment of Functional Connectivity in Autism	\$175,176	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER
Decoding Neural Systems Underlying Affective Prosody in Children with Autism	\$175,960	Q2.Other	STANFORD UNIVERSITY

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Development of infant brain MEG responses to social stimuli: comparison to ASD	\$176,278	Q1.L.A	Children's Hospital of Philadelphia
Predicting the Decline of Social Attention in Infants at Risk for Autism	\$176,818	Q1.L.A	University of California, Los Angeles
Prenatal factors and risk of autism in a Finnish national birth cohort	\$177,000	Q3.S.H	Columbia University
Neural Correlates of Biological Motion Perception in Children with ASD	\$177,012	Q2.L.A	Yale University
Early life vitamin D levels and risk of autism spectrum disorders	\$177,805	Q3.S.H	DREXEL UNIVERSITY
Prefrontal corticothalamic circuits in autism	\$178,646	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
GABA Epigenomes in Autism	\$178,779	Q3.S.J	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Reducing Barriers to Autism Care in Latino Children	\$179,521	Q1.S.C	OREGON HEALTH & SCIENCE UNIVERSITY
mTOR modulation of myelination	\$179,659	Q2.S.D	Vanderbilt University
Role of Draxin in Forebrain Connectivity and Complex Behaviors	\$179,959	Q2.Other	WADSWORTH CENTER
Neural Predictors of Language Function After Intervention in Children with Autism	\$181,319	Q1.L.B	University of California, Los Angeles
Longitudinal Characterization of Functional Connectivity in Autism	\$182,352	Q2.L.A	UNIVERSITY OF UTAH
Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	Q2.S.A	Columbia University
Pilot Study to Improve Access to Early Intervention for Autism in Africa	\$183,599	Q4.L.D	Duke University
Modifiable Behavior & Dietary Predictors of Overweight in Children with ASD	\$184,229	Q4.S.H	University of Kansas
Developing the Autism Model of Implementation for ASD Community Providers	\$185,332	Q5.L.A	SAN DIEGO STATE UNIVERSITY
3/3 Treatment of anxiety in autism spectrum disorder	\$185,444	Q4.S.A	Temple University
Neural assays and longitudinal assessment of infants at very high risk for ASD	\$185,656	Q1.L.A	University of California, Los Angeles
Behavioral and Neural Response to Memantine in Adolescents with Autism	\$186,192	Q4.S.F	Massachusetts General Hospital
Brain Network Development in Normal and Autistic Children	\$187,164	Q2.Other	UNIVERSITY OF UTAH
A mouse model for AUTS2-linked neurodevelopmental disorders	\$189,187	Q2.S.D	University of Illinois
fMRI and EEG approaches to the resting state in ASD	\$190,411	Q2.Other	SAN DIEGO STATE UNIVERSITY
Mechanisms underlying the Cerebellar Contribution to Autism in Mouse Models of Tuberous Sclerosis Complex	\$190,458	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER

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Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$190,558	Q2.S.G	University of California, Los Angeles
Decoding the RGS14 Interactome/Signalosome in CA2 hippocampal neurons	\$191,640	Q2.Other	Emory University
Neuroimaging/Neurophysiology	\$193,070	Q7.Other	University of California, Los Angeles
Protein network of high risk copy number variants for psychiatric disorders	\$193,750	Q2.Other	University of California, San Diego
Identification of TSC cellular phenotypes using patient-derived iPSCs	\$193,750	Q2.S.D	Rutgers University
Prenatal Timing of Heavy Metal Exposures from Autistic and Non-Autistic Children	\$194,415	Q3.S.B	UNIVERSITY OF TEXAS HLTH SCIENCE CENTER
Development of postural control variability and preferential looking behavior in	\$194,733	Q1.L.A	University of Nebraska
Imaging of protein synthesis and ubiquitination in fragile x syndrome	\$195,000	Q2.S.D	Emory University
Air Pollution and Autism in Denmark	\$195,216	Q3.S.H	University of California, Los Angeles
Functional Outcomes of Interactions between an ASD-Relevant Gene and Air Pollution	\$195,625	Q3.S.K	University of California, Davis
Change in social adaptive action and brain connectivity in infants' first 6 months	\$196,499	Q1.L.A	Emory University
24.0	\$197,500	Q2.S.E	UNIVERSITY OF CHICAGO
Are endocrine disrupting compounds environmental risk factors for autism?	\$198,125	Q3.S.J	GEORGE WASHINGTON UNIVERSITY
Neural Effects of Sustained Oxytocin Treatment in Children with Autism	\$198,315	Q4.S.F	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Pivotal Response Treatment Package for Young Children with Autism	\$198,618	Q4.S.C	STANFORD UNIVERSITY
Role of autism-associated chromatin remodeler Brg1 in neuronal development	\$198,750	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Accelerating the diagnosis of autism spectrum disorder in rural Idaho via evidence-based Smartphone technology	\$200,000	Q1.S.C	CARING TECHNOLOGIES, INC.
Applications of novel statistical methods to CNVs in autism and schizophrenia	\$200,000	Q3.L.B	Columbia University
e-Unstuck: Interactive e-learning software for parents to support executive functioning and behavior regulation in children with Autism Spectrum Disorder	\$201,831	Q5.L.C	3-C INSTITUTE FOR SOCIAL DEVELOPMENT
Identification of human-relevant CLOCK molecular signaling pathways	\$201,875	Q2.S.E	UT SOUTHWESTERN MEDICAL CENTER
Predicting risk and resilience in ASD through social visual engagement	\$202,265	Q2.L.B	Emory University
Mechanisms of Autonomic Brainstem Development	\$202,500	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES

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1/2 Treatment of Feeding Problems in Children with Autism	\$205,163	Q4.S.A	UNIVERSITY OF FLORIDA
Childhood Autism and Air Pollution - A Statewide Study	\$206,175	Q3.S.H	University of California, Los Angeles
1/4-The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$206,585	Q3.S.A	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Thalamic activity and structure and surface neural oscillations in autism	\$207,016	Q2.Other	Children's Hospital of Philadelphia
Maternal Depression and Antidepressant Use During Pregnancy and Risk of Childhood Autism Spectrum Disorders in Offspring: Population-Based Cohort and Bidirectional Case-Crossover Sibling Study	\$207,900	Q3.S.H	Boston University
Astrocytes contribution to tuberous sclerosis pathology	\$208,125	Q2.S.D	Yale University
Administrative Core	\$210,704	Q7.Other	University of California, Los Angeles
Molecular control of prefrontal cortical circuitry in autism	\$211,875	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Long non-coding RNAs in gene regulatory networks underlying Autism	\$211,875	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep	\$211,875	Q2.Other	New York University
Transition to Medication Self-Management for Youth with ASD & Co-Occurring ADHD	\$214,053	Q5.L.D	AMERICAN ACADEMY OF PEDIATRICS
Clinical Assessment Core	\$215,216	Q7.Other	Emory University
1/3 Treatment of Anxiety in Autism Spectrum Disorder	\$218,092	Q4.S.A	University of California, Los Angeles
Time Perception and Timed Performance in Autism	\$219,234	Q2.Other	MICHIGAN STATE UNIVERSITY
Interdisciplinary Training for Autism Researchers	\$219,574	Q7.K	University of California, Davis
CHARACTERIZATION OF OXYTOCIN RECEPTORS IN AUTISM SPECTRUM DISORDER	\$220,839	Q2.Other	University of California, Davis
STEPS: Stepped Transition in Education Program for Students with ASD	\$222,187	Q6.L.A	VIRGINIA POLYTECHNIC INST AND ST UNIV
Pesticide Exposure and Childhood Autism	\$222,763	Q3.S.F	University of California, Los Angeles
ANALYSIS OF CORTICAL FUNCTION	\$222,861	Q2.Other	National Institutes of Health
Is Jaundice in Premature Infants a Risk Factor for Autism?	\$224,493	Q3.S.H	University of Rochester
Autism Spectrum Disorder Diagnostic/Therapeutic Agent	\$225,000	Q2.S.A	SPARK2FLAME, INC.
Development of a novel neurotechnology to promote emotion recognition in autism	\$225,262	Q4.Other	VIRGINIA POLYTECHNIC INST AND ST UNIV
UBR7 is a novel chromatin directed E3 ubiquitin ligase	\$225,956	Q2.Other	Northwestern University
Coordinate actions between methyl-CpG binding proteins in neuronal development	\$226,585	Q2.S.D	University of Wisconsin

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Modeling The Serotonin Contribution to Autism Spectrum Disorders	\$227,339	Q4.S.B	Vanderbilt University
Improving Transition Outcomes in ASD using COMPASS	\$228,181	Q6.L.C	University of Kentucky
NRI: Music-based Interactive Robotic Orchestration for Children with ASD	\$228,552	Q4.Other	NEW YORK INST OF TECHNOLOGY
NIH R21/R33: Transformative Co-Robotic Technology for Autism Intervention	\$228,848	Q4.Other	Vanderbilt University
Environmental risk factors for autistic behaviors in a cohort study	\$229,308	Q3.S.H	BRIGHAM AND WOMEN'S HOSPITAL
2/2-Treatment of Feeding Problems in Children with Autism	\$230,250	Q4.S.A	University of Rochester
Reducing Diversity at the Gamma Protocadherin Locus by CRISPR Targeting	\$230,739	Q2.Other	JACKSON LABORATORY
Chloride homeostasis and GABA maturation in fragile X syndrome	\$231,750	Q2.S.D	Northwestern University
2/3 Sequencing Autism Spectrum Disorder Extended Pedigrees	\$231,750	Q3.L.B	University of Washington
Research education and training	\$232,137	Q7.K	University of California, Los Angeles
DETECTING THE TRANSFER OF MATERNAL ANTIBODIES INTO THE FETAL RHESUS MONKEY BRAIN	\$233,500	Q2.S.A	University of California, Davis
Electrophysiological Response to Executive Control Training in Autism	\$235,084	Q2.Other	CHILDREN'S HOSPITAL CORPORATION
CHD5 dosage in epigenetic control of Cancer, Infertility, and Autism	\$235,200	Q3.S.J	COLD SPRING HARBOR LABORATORY
Mapping Thalamocortical Networks Across Development in ASD	\$235,500	Q2.Other	Vanderbilt University
Peers, play and performance to improve social interaction in autism	\$235,500	Q4.Other	Vanderbilt University
BRAIN MICROSTRUCTURE & BEHAVIOR IN NEWLY-DIAGNOSED TODDLERS/PRESCHOOLERS WITH ASD	\$236,506	Q2.Other	Washington University in St. Louis
Adapting a Parent Advocacy Program to Improve Transition for Youth With Autism	\$236,545	Q6.L.A	Vanderbilt University
The Spread of Autism Diagnosis through Spatially Embedded Social Networks	\$236,558	Q7.I	Columbia University
Diagnostic and recruitment	\$236,921	Q7.Other	University of California, Los Angeles
Quantitative Measurements of Cortical Excitability in Neurodevelopmental Disorder	\$237,250	Q2.Other	STANFORD UNIVERSITY
Variation in Neuroligin Concentration and Presynaptic Functional Development	\$237,438	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

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A novel neural circuit analysis paradigm to model autism in mice	\$238,500	Q4.S.B	Duke University
Neural basis underlying autistic behaviors	\$240,000	Q2.Other	The Scripps Research Institute
Clinical algorithm for identifying adult autism	\$240,000	Q6.S.C	University of Pennsylvania
Self-Regulation and Sleep in Children At Risk for Autism Spectrum Disorders	\$240,004	Q2.S.E	PURDUE UNIVERSITY
Epigenetic regulation of social impairments and treatment response in autism	\$240,750	Q3.S.J	STANFORD UNIVERSITY
Divergent biases for conspecifics as early markers for Autism Spectrum Disorders	\$242,662	Q1.L.A	New York University
Autism Metabolomics and Environment (AIME)	\$244,232	Q3.S.H	University of California, Los Angeles
Pre-clinical evaluation of oxytocin for ASD treatment discovery	\$244,898	Q4.S.B	University of California, Davis
Deficits in KCC2 activity and the pathophysiology of Autism spectrum disorders	\$247,500	Q2.Other	Tufts University
Novel candidate mechanisms of fragile X syndrome	\$248,235	Q2.S.D	UNIVERSITY OF MICHIGAN
Complex Genetic Architecture of Chromosomal Aberrations in Autism	\$248,999	Q3.L.B	Massachusetts General Hospital
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$249,000	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Presynaptic Fragile X Proteins	\$249,000	Q2.S.D	DREXEL UNIVERSITY
A Multimedia Screening System for Early ASD Identification in Diverse Populations	\$249,750	Q1.S.B	Yale University
Gaze Modification Strategies for Toddlers with ASD	\$249,750	Q4.Other	Yale University
Services to enhance social functioning in adults with autism spectrum disorder	\$249,867	Q5.L.A	University of Pennsylvania
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$250,167	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$250,546	Q2.Other	PRINCETON UNIVERSITY
Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$253,652	Q2.S.G	University of California, Los Angeles
Wireless EEG System for Training Attention and Eye Movement in ASD	\$256,065	Q4.Other	University of California, San Diego
Preschool Reading and Language Interventions for Children with Autism	\$259,353	Q4.L.D	University of Washington
Genetic Modifiers of Seizure Disorders in Fragile X Syndrome	\$261,539	Q2.S.D	Emory University
Supported Employment, Cognitive Enhancement, Social Skills Program for ASD Adult	\$261,772	Q6.L.A	Rady Children's Hospital Health Center

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Multi-family Group Psychoeducation for Young Adults with ASD	\$263,375	Q6.L.A	University of Wisconsin
Sex-specific modulation of ASD liability: Compensatory mechanisms and recurrence	\$266,489	Q2.S.B	Washington University in St. Louis
Project 2: The impact of assisted reproductive technologies on the long-term epi	\$267,750	Q3.S.J	University of Hawaii
Enhancing the Autism Brain Imaging Data Exchange to Define the Autism Connectome	\$269,551	Q7.Other	New York University
Prenatal Antimicrobial Agent Exposure, Fetal Androgens and ASD Risk	\$273,875	Q3.S.B	DREXEL UNIVERSITY
Cell-specific molecular mechanisms underlying brain pathology in ASD	\$274,021	Q2.Other	University of California, Davis
Augmenting language interventions for ASD: A translational approach	\$280,788	Q4.L.A	University of California, Los Angeles
Developmental Linkage of Metabolic Homeostasis and Sociality	\$280,918	Q2.S.A	Indiana University
INFANT SCREENING OF EARLY COMMUNICATION RISK: THE CISS; PHASE II	\$280,968	Q1.S.B	PAUL H. BROOKES PUBLISHING COMPANY, INC.
Targeting joint engagement in infants at risk for ASD: Integrating treatment wit	\$281,397	Q4.L.B	University of California, Los Angeles
Research Participation Core	\$284,823	Q7.Other	University of Wisconsin
Development of vision and attention in typical and ASD individuals	\$291,359	Q2.S.G	BROWN UNIVERSITY
Optimization of Fidelity Procedures for Pivotal Response Training in Autism	\$292,970	Q5.L.A	University of California, San Diego
Statistical Methods for Ultrahigh-dimensional Biomedical Data	\$294,132	Q2.Other	PRINCETON UNIVERSITY
1/3 - Sequencing Autism Spectrum Disorder Extended Pedigrees	\$298,000	Q3.L.B	UNIVERSITY OF UTAH
The Development of Auditory Joint Engagement	\$299,422	Q1.L.C	GEORGIA STATE UNIVERSITY
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$299,537	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Mechanisms of Motor Skill Learning in the Fragile X Mouse Model	\$300,434	Q2.S.D	University of Nebraska
3/4 - The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$302,248	Q3.S.A	University of Pittsburgh
Peer-Mediated AAC Intervention for Children with Autism: Effects on Communication	\$305,400	Q4.S.G	University of Kansas
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$306,829	Q2.Other	University of Pennsylvania
Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$309,592	Q2.Other	Duke University

Project Title	Funding	Strategic Plan Objective	Institution
Mechanisms of Valproic Acid-Induced Neurodevelopmental and Behavioral Defects	\$310,549	Q3.S.J	University of Maryland
DEVELOPMENTAL SYNAPTOPATIES ASSOCIATED WITH TSC, PTEN AND SHANK3 MUTATIONS	\$310,746	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
Ontogeny and neural basis of social visual engagement in monkeys	\$312,542	Q2.Other	Emory University
Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$312,853	Q2.Other	Children's Hospital of Philadelphia
Prenatal Exposure to Phthalates in a High-Risk ASD Pregnancy Cohort	\$313,000	Q3.S.F	University of California, Davis
Social Brain Networks for the Detection of Agents and Intentions	\$316,250	Q2.Other	Yale University
Functional Genomics of Human Brain Development	\$317,764	Q2.Other	Yale University
Caspr2 as an autism candidate gene: a proteomic approach to function & structure.	\$318,000	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Novel Statistical methods for DNA Sequencing Data, and applications to Autism.	\$318,575	Q3.L.B	Columbia University
Intra-Prenatal Origins of Neurometabolic Consequences	\$319,550	Q2.S.A	University of California, Los Angeles
Impairments of Theory of Mind disrupt patterns of brain activity	\$321,000	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Role of UBE3A in the Central Nervous System	\$321,269	Q2.S.D	University of North Carolina
Molecular Dissection of Calmodulin Domain Functions	\$321,473	Q2.Other	UNIVERSITY OF IOWA
Role of pre-natal Vitamin D and gene interactions in Autism Spectrum Disorders; leveraging an existing case-control study	\$322,090	Q3.S.C	SEQUOIA FOUNDATION
Transcriptional and Epigenetic Signatures of Human Brain Development and Autism	\$326,196	Q3.S.J	Yale University
Inhibitory mechanisms for sensory map plasticity in cerebral cortex.	\$326,282	Q2.Other	University of California, Berkeley
Novel Genetic Models of Autism	\$329,427	Q4.S.B	UT SOUTHWESTERN MEDICAL CENTER
Spastic paraplegia, neurodegeneration and autism: possible role for AT-1/SLC33A1?	\$330,978	Q2.Other	University of Wisconsin
Molecular mechanisms linking early life seizures, autism and intellectual disabil	\$331,905	Q2.S.E	University of Colorado, Denver
Functional analysis of Neuroligin-Neurexin interactions in synaptic transmission	\$336,875	Q2.Other	University of Massachusetts, Worcester
LEARNING AND PLASTICITY IN THE HUMAN BRAIN	\$339,183	Q2.Other	National Institutes of Health
Scalable technologies for genome engineering in hIPSCs	\$341,000	Q4.S.B	University of California, San Diego
In utero antidepressant exposures and risk for autism	\$348,000	Q3.S.H	Massachusetts General Hospital

Project Title	Funding	Strategic Plan Objective	Institution
V-Motive: System for Comprehensive Therapy-Integrated Video Modeling	\$349,009	Q4.Other	EXPERIAD, LLC
Effects of Social Gaze Training on Brain and Behavior in Fragile X Syndrome	\$352,066	Q2.S.D	STANFORD UNIVERSITY
Sterols, Neurogenesis and Environmental Agents	\$353,250	Q3.Other	Vanderbilt University
ELUCIDATING THE FUNCTION OF CLASS 4 SEMAPHORINS IN GABAERGIC SYNAPSE FORMATION.	\$353,931	Q2.Other	BRANDEIS UNIVERSITY
THE ROLE OF MECP2 IN RETT SYNDROME	\$356,699	Q2.S.D	University of California, Davis
Research Project: Sensory and Multisensory Contributions to Autism	\$357,191	Q2.Other	Vanderbilt University
Emergence and Stability of Autism in Fragile X Syndrome	\$358,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Extraction of Functional Subnetworks in Autism Using Multimodal MRI	\$359,174	Q1.L.B	Yale University
Action Recognition System for Behavioral Assessment Training, Data-sharing, and Early Markers Detection for Autism Spectrum Disorders	\$360,563	Q1.S.B	BSOLUTIONS, INC.
Formation and Function of Circuitry for Vocal Learning	\$361,456	Q4.S.B	University of California, Los Angeles
Cellular Density and Morphology in the Autistic Temporal Human Cerebral Cortex	\$365,795	Q2.Other	University of California, Davis
FUNCTIONAL DISSECTION OF CNVS IN NEURODEVELOPMENTAL TRAITS	\$366,666	Q3.L.B	Duke University
Genetic-imaging study of obsessive compulsive behavior in autism	\$370,245	Q2.S.E	BROWN UNIVERSITY
Genome-wide Identification of Variants Affecting Early Human Brain Development	\$370,249	Q2.S.G	University of North Carolina
AUDITORY AND INTEGRATIVE FUNCTIONS OF THE PREFRONTAL CORTEX	\$370,498	Q2.Other	University of Rochester
Translational Regulation of Adult Neural Stem Cells	\$372,633	Q2.S.D	University of Wisconsin
Early Identification of ASD: Translating Eye Tracking into Practice	\$373,818	Q1.S.B	University of California, San Diego
Engrailed targets and the control of synaptic circuits in Drosophila	\$375,000	Q2.Other	UNIVERSITY OF PUERTO RICO MED SCIENCES
Verbal/non-verbal asynchrony in adolescents with high-functioning Autism	\$376,077	Q2.Other	EMERSON COLLEGE
Development and afferent regulation of auditory neurons	\$376,200	Q2.S.D	Florida State University
Adaptive Response Technology for Autism Spectrum Disorders Intervention	\$377,082	Q4.Other	Vanderbilt University
Neural networks for attention to internal and external sensory cues in ASD	\$379,582	Q2.Other	Vanderbilt University

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Neurobiological Mechanism of 15q11-13 Duplication Autism Spectrum Disorder	\$380,625	Q2.S.D	BETH ISRAEL DEACONESS MEDICAL CENTER
Translation, Synchrony, and Cognition	\$380,953	Q2.S.D	New York University
Mechanisms of stress-enhanced aversive conditioning	\$381,250	Q4.S.B	Northwestern University
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$382,268	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE
Genetic and Developmental Analyses of Fragile X Mental Retardation Protein	\$383,322	Q2.S.D	Vanderbilt University
Optogenetic treatment of social behavior in autism	\$385,000	Q2.Other	University of California, Los Angeles
Typical and Pathological Cellular Development of the Human Amygdala	\$385,000	Q2.Other	University of California, Davis
Treatment of Autism Symptoms in Children (TASC): Initial RCT with Active Control	\$385,000	Q4.Other	University of California, Los Angeles
PHENOTYPING ASTROCYTES IN HUMAN NEURODEVELOPMENTAL DISORDERS	\$386,607	Q2.Other	STANFORD UNIVERSITY
Maternal Immune Activation in a Genetic Mouse Model of ASD	\$387,961	Q2.S.A	University of Nebraska
Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$388,354	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$388,750	Q2.Other	UNIVERSITY OF TEXAS MEDICAL BR GALVESTON
Sex-specific regulation of social play	\$391,250	Q2.S.B	BOSTON COLLEGE
THE GENETIC AND NEUROANATOMICAL ORIGIN OF SOCIAL BEHAVIOR	\$391,250	Q4.S.B	Baylor College of Medicine
Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder	\$392,186	Q2.L.A	SAN DIEGO STATE UNIVERSITY
A Family-Genetic Study of Autism and Fragile X Syndrome	\$393,739	Q2.S.D	Northwestern University
Organization of Excitatory and Inhibitory Circuits in ASD	\$395,236	Q2.Other	Boston University
Synaptic Phenotype, Development, and Plasticity in the Fragile X Mouse	\$395,642	Q2.S.D	MICHIGAN STATE UNIVERSITY
New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso	\$396,250	Q2.S.D	CLEVELAND CLINIC LERNER COM-CWRU
Preclinical evaluation of NMDA receptor antagonists for treating Rett Syndrome	\$396,250	Q4.S.B	CASE WESTERN RESERVE UNIVERSITY
Striatal synaptic Abnormalities in Models of Autism	\$397,500	Q4.S.B	UT SOUTHWESTERN MEDICAL CENTER
Restricted Repetitive Behavior in Autism	\$398,185	Q1.L.B	University of North Carolina
Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation	\$398,230	Q2.Other	VIRGINIA POLYTECHNIC INST AND ST UNIV
Family Outcomes in Autism Spectrum Disorders	\$399,276	Q5.Other	University of Wisconsin

Project Title	Funding	Strategic Plan Objective	Institution
Neurobiological Signatures of Social Dysfunction and Repetitive Behavior	\$400,710	Q4.S.B	NEW YORK STATE PSYCHIATRIC INSTITUTE
Shank3 in Synaptic Function and Autism	\$401,250	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Cerebellum and autism: Neural mechanisms and modulation of predictive processing	\$402,769	Q2.Other	AMERICAN UNIVERSITY
The role of Foxp1-regulated signaling pathways in brain development and behavior	\$403,750	Q2.S.G	UT SOUTHWESTERN MEDICAL CENTER
The Impact of Pten Signaling on Neuronal Form and Function	\$405,000	Q2.Other	DARTMOUTH COLLEGE
The Effects of Intranasal Oxytocin on Social Cognition and Neural Activity	\$406,067	Q4.S.A	Emory University
Autism-linked endosomal mechanisms in neuronal arborization and connectivity	\$406,250	Q2.Other	BROWN UNIVERSITY
Mechanisms of circuit failure and treatments in patient-derived neurons in autism	\$406,250	Q4.S.B	BROWN UNIVERSITY
Methylomic and genomic impacts of organic pollutants in Dup15q syndrome	\$407,053	Q3.S.J	University of California, Davis
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$410,720	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Early Life Seizures Disrupt Critical Period Plasticity	\$413,020	Q2.S.E	University of Pennsylvania
Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity	\$415,500	Q2.S.E	Baylor College of Medicine
2/4-The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$415,893	Q3.S.A	BROAD INSTITUTE, INC.
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Biology of Non-Coding RNAs Associated with Psychiatric Disorders	\$416,433	Q2.Other	University of Southern California
Molecular genetic dissection of amygdala microcircuitry controlling decision-making	\$416,875	Q3.S.K	CALIFORNIA INSTITUTE OF TECHNOLOGY
Characterization of the Schizophrenia-associated 3q29 Deletion in Mouse	\$417,252	Q4.S.B	Emory University
Neuronal Adaptation and Plasticity after Chronic Disuse	\$423,750	Q2.Other	New York University
Analysis of Shank3 Complete and Temporal and Spatial Specific Knockout Mice	\$425,202	Q2.Other	Duke University
The neurophysiology of sensory processing and multisensory integration in ASD	\$426,311	Q2.Other	SYRACUSE UNIVERSITY
Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	Q2.Other	PRINCETON UNIVERSITY
A computational framework for predicting the impact of mutations in autism	\$431,352	Q2.S.G	University of California, San Diego

Project Title	Funding	Strategic Plan Objective	Institution
Mouse model of maternal allergic asthma and offspring autism-like behavioral deficits	\$432,669	Q2.S.A	MOUNT HOLYOKE COLLEGE
DEVELOPING NEW STATISTICAL METHODS TO DETECT RARE VARIANTS INVOLVED IN NEUROPSYCHIATRIC DISORDERS	\$433,800	Q3.L.B	National Institutes of Health
Phenotypic Characterization of Gene Disrupting Mutations in ASD	\$435,213	Q2.S.G	University of Washington
Neurodevelopmental Phenotypes in MLL mutant mice	\$435,747	Q3.S.J	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Cortical Plasticity in Autism Spectrum Disorders	\$437,188	Q2.Other	BETH ISRAEL DEACONESS MEDICAL CENTER
fcMRI in Infants at High Risk for Autism	\$439,808	Q1.L.A	Washington University in St. Louis
Oxytocin Receptors and Social Behavior	\$440,363	Q4.S.B	Emory University
Developmental Exposures to Inhaled Air Pollution and the Autism Phenotype in Mice	\$442,857	Q3.S.K	University of Rochester
An environment-wide association study in autism spectrum disorders using novel bioinformatics methods and metabolomics via mass spectrometry	\$447,126	Q3.S.C	CHILDREN'S HOSPITAL CORPORATION
Heparan sulfate in neurophysiology and neurological disorders	\$449,744	Q2.Other	SANFORD-BURNHAM MEDICAL RESEARCH INSTIT
The Roles of Environmental Risks and GEX in Increasing ASD Prevalence	\$450,208	Q3.L.D	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Genetics of conotruncal defects and associated neurodevelopmental outcomes	\$453,446	Q2.S.E	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Rapid Phenotyping for Rare Variant Discovery in Autism	\$453,878	Q3.S.A	University of California, Los Angeles
BDNF and the Restoration of Synaptic Plasticity in Fragile X and Autism	\$455,630	Q2.S.D	University of California, Irvine
Functional analysis of the Schizophrenia and Autism Spectrum Disorder gene TCF4 i	\$457,500	Q4.S.B	LIEBER INSTITUTE, INC.
Prefrontal function in the Shank3-deficient rat: A first rat model for ASD	\$457,912	Q4.S.B	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
High content assays for cellular and synaptic phenotypes	\$462,191	Q2.Other	University of California, San Diego
The neurobiological basis of heterogeneous social and motor deficits in ASD	\$464,220	Q2.Other	University of Southern California
Development of a Prospective Video-Based Measure to Identify ASD Risk in Infancy	\$465,547	Q1.S.B	University of California, Davis
Impact of Pten mutations on brain growth and social behavioral development.	\$480,000	Q3.S.K	The Scripps Research Institute
Cognitive and Neural Flexibility in Autism	\$480,296	Q2.Other	University of Miami
Dissecting neural mechanisms integrating multiple inputs in C. elegans	\$485,000	Q2.Other	SALK INSTITUTE FOR BIOLOGICAL STUDIES

Project Title	Funding	Strategic Plan Objective	Institution
Identifying therapeutic targets for autism using Shank3-deficient mice	\$487,448	Q4.S.B	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Molecular Mechanisms of Atypical Habituation in Autism Spectrum Disorders	\$488,472	Q1.L.A	University of Washington
Smart Early Screening for Autism and Communication Disorders in Primary Care	\$489,303	Q1.S.B	Florida State University
Thalamocortical circuit defects in developmental brain disorders	\$490,462	Q2.S.D	University of Maryland
Change-sensitive Measurement of Emotion Dysregulation in ASD	\$491,098	Q1.Other	University of Pittsburgh
Language Development in Fragile X Syndrome	\$495,501	Q2.S.D	University of California, Davis
Gaining insight into psychiatric disease by engineering piece by piece the human brain in vitro.	\$496,813	Q2.Other	STANFORD UNIVERSITY
Eyeblink conditioning in school-aged children with ASD	\$497,699	Q1.L.A	SEATTLE CHILDREN'S HOSPITAL
Reproducible protocols for robust cortical neuron and astroglial differentiation	\$500,132	Q2.Other	University of California, San Diego
Predictors of Cognitive Development in Autism Spectrum Disorder	\$504,641	Q2.L.A	University of California, Davis
Executive Function in Children with Typical and Atypical Language Abilities	\$514,484	Q2.Other	University of Wisconsin
The Social Brain in Schizophrenia and Autism Spectrum Disorders	\$519,563	Q2.Other	HARTFORD HOSPITAL
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$521,650	Q2.Other	COLD SPRING HARBOR LABORATORY
Bidirectional Tyrosine Kinase Signaling	\$523,695	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
The Roles of Environmental Risks and GEX in Increasing ASD Prevalence	\$523,986	Q3.L.D	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Changing developmental trajectories through early treatment	\$524,795	Q4.L.D	Emory University
THE COGNITIVE SEARCHLIGHT: TRN CIRCUIT DISSECTION IN HEALTH AND DISEASE	\$528,288	Q2.Other	New York University
Treatment of Medical Conditions among Individuals with Autism Spectrum Disorders	\$528,903	Q2.S.E	National Institutes of Health
Early Quantitative Characterization of Reciprocal Social Behavior	\$535,568	Q1.L.C	Washington University in St. Louis
Prenatal factors and risk of autism in a Finnish national birth cohort	\$538,035	Q3.S.H	Columbia University
Administrative Core	\$543,171	Q7.Other	University of California, San Diego
Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders	\$544,025	Q2.Other	University of Wisconsin

Project Title	Funding	Strategic Plan Objective	Institution
Synaptic pathophysiology of the 16p11.2 microdeletion mouse model	\$557,176	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Investigating the Gut Microbiome for Novel Therapies and Diagnostics for Autism	\$558,136	Q3.S.I	CALIFORNIA INSTITUTE OF TECHNOLOGY
Epidemiological Research on Autism in Jamaica - Phase II	\$562,960	Q3.S.H	UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON
Computational tools to analyze SNP data from patients with mental illness	\$572,792	Q3.L.B	PARTEK, INC.
Biological Determinants of Brain Variation in Autism	\$575,716	Q2.S.G	University of Wisconsin
Dissecting recurrent microdeletion syndromes using dual-guide genome editing	\$580,798	Q2.Other	Massachusetts General Hospital
GABRB3 and Placental Vulnerability in ASD	\$581,537	Q2.S.A	STANFORD UNIVERSITY
Prospective Evaluation of Air Pollution, Cognition, and Autism from Birth Onward	\$582,831	Q3.S.H	Johns Hopkins University
Mechanotransduction C. elegans	\$588,908	Q2.Other	Massachusetts General Hospital
Biomarkers in Autism of Aripiprazole and Risperidone Treatment (BAART)	\$589,254	Q4.S.F	UNIVERSITY OF SOUTH CAROLINA
Early Detection of Autism Spectrum Disorder	\$595,065	Q1.S.B	DREXEL UNIVERSITY
A Family-Genetic Study of Autism and Fragile X Syndrome	\$597,808	Q2.S.D	Northwestern University
Neuronal Activity-Dependent Regulation of MeCP2	\$600,383	Q2.S.D	Harvard University
Tet-mediated Epigenetic Modulation in Autism	\$603,129	Q2.S.D	Emory University
Administration and Data Management	\$605,081	Q7.Other	Boston University
Toward Outcome Measurement of Anxiety in Youth with Autism Spectrum Disorders	\$605,198	Q1.L.B	Emory University
Mathematical Cognition in Autism: A Cognitive and Systems Neuroscience Approach	\$605,511	Q2.Other	STANFORD UNIVERSITY
Dynamic regulation of Shank3 and ASD	\$612,287	Q2.Other	Johns Hopkins University
Impact of SynGAP1 Mutations on Synapse Maturation and Cognitive Development	\$614,568	Q2.Other	The Scripps Research Institute
Brain Bases of Language Deficits in SLI and ASD	\$616,032	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Transitioning to Adulthood: A Prospective Longitudinal Study	\$616,268	Q6.L.B	Weill Cornell Medical College
Neurotrophic Factor Regulation of Gene Expression	\$618,134	Q2.S.D	Harvard University
Population-Based Autism Genetics & Environment Study	\$618,149	Q3.L.D	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain	\$619,801	Q2.S.G	HUGO W. MOSER RES INST KENNEDY KRIEGER
Evaluating the Effects of Autism Insurance Mandates	\$623,689	Q5.Other	University of Pennsylvania

Project Title	Funding	Strategic Plan Objective	Institution
Comparative Effectiveness of Developmental-Behavioral Screening Instruments	\$627,740	Q1.S.B	Tufts University
Sensory Adapted Dental Environments to Enhance Oral Care for Children	\$632,761	Q5.L.E	University of Southern California
Genotype-Phenotype Relationships in Fragile X Families	\$633,789	Q2.S.D	University of California, Davis
Folic Acid Prevention Pathways for ASD in High Risk Families	\$637,260	Q3.L.A	University of California, Davis
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$639,375	Q2.S.G	SLOAN-KETTERING INST CAN RESEARCH
Integrity and Dynamic Processing Efficiency of Networks in ASD	\$641,036	Q2.Other	SAN DIEGO STATE UNIVERSITY
Efficacy of Parent-implemented Treatment in Infant Siblings of Children With ASD	\$643,729	Q4.L.B	Vanderbilt University
Next Generation Gene Discovery in Familial Autism	\$644,823	Q3.L.B	University of Washington
Multiscale Genetic Connectivity of Primate Social Circuits	\$647,114	Q2.Other	UNIVERSITY OF UTAH
Inhibitory dysfunction in autism	\$647,425	Q2.Other	University of Washington
Sporadic Mutations and Autism Spectrum Disorders	\$647,900	Q3.S.A	University of Washington
Behavioral Inflexibility in IDD Outcome Measurement	\$651,540	Q1.L.C	University of North Carolina
Autism: Social and Communication Predictors in Siblings	\$653,284	Q1.L.A	HUGO W. MOSER RES INST KENNEDY KRIEGER
Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$659,700	Q2.S.G	Duke University
Integrating the genomics of Autism Spectrum Disorders(ASD) in consanguineous and "idiopathic" families	\$665,939	Q3.L.B	Yale University
Dimensional analysis of developmental brain disorders using an online, genome-first approach	\$667,178	Q2.S.G	Geisinger Clinic
Assessing Preferences for Use of Clinical Data Among Individuals with IDD and Their Guardians	\$668,316	Q7.A	RESEARCH TRIANGLE INSTITUTE
COMPONENTS OF EMOTIONAL PROCESSING IN TODDLERS WITH ASD	\$674,796	Q1.L.A	Yale University
Neural Phenotypes of Females with Autism Spectrum Disorder	\$675,236	Q2.S.B	University of California, Davis
4/4 The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$676,656	Q3.S.A	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Function and Structure Adaptations in Forebrain Development	\$678,394	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
Induced neuronal cells: A novel tool to study neuropsychiatric diseases	\$680,862	Q2.Other	STANFORD UNIVERSITY
FUNCTIONAL AND STRUCTURAL OPTICAL BRAIN IMAGING	\$682,022	Q2.Other	National Institutes of Health

Project Title	Funding	Strategic Plan Objective	Institution
Environmental contribution to neuronal-methylome dynamics in animal models of autism spectrum disorders	\$685,424	Q3.S.J	SALK INSTITUTE FOR BIOLOGICAL STUDIES
GENE DOSAGE IMBALANCE IN NEURODEVELOPMENTAL DISORDERS	\$689,203	Q1.S.E	GEISINGER CLINIC
Computational characterization of language use in autism spectrum disorder	\$692,720	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
Sensory Integration Therapy in Autism: Mechanisms and Effectiveness	\$694,725	Q4.S.F	ALBERT EINSTEIN COLLEGE OF MEDICINE
Autism Spectrum Disorder: Birth Cohort 1976-2000, Epidemiology and Adult Status	\$695,243	Q6.Other	MAYO CLINIC ROCHESTER
4/5-The Autism Biomarkers Consortium for Clinical Trials	\$701,337	Q1.L.B	University of Washington
Functional connectivity substrates of social and non-social deficits in ASD	\$701,636	Q2.Other	Massachusetts General Hospital
Characterizing mechanistic heterogeneity across ADHD and Autism	\$709,255	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
3/5-The Autism Biomarkers Consortium for Clinical Trials	\$709,293	Q1.L.B	University of California, Los Angeles
FUNCTION OF NEUREXINS	\$716,276	Q2.Other	STANFORD UNIVERSITY
1/4-The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$720,372	Q3.S.A	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism	\$727,821	Q2.S.D	CHILDREN'S HOSPITAL CORPORATION
Cognitive Enhancement Therapy for Adult Autism Spectrum Disorder	\$730,393	Q4.S.F	University of Pittsburgh
1/5-The Autism Biomarkers Consortium for Clinical Trials	\$741,668	Q1.L.B	Duke University
Effectiveness and Implementation of a Mental Health Intervention for ASD	\$746,838	Q5.L.A	University of California, San Diego
Genetic Epidemiology of Complex Traits	\$747,204	Q3.L.B	National Institutes of Health
RCT of TeachTown in Autism Support Classrooms: Innovation and Exnovation	\$751,181	Q5.L.B	University of Pennsylvania
The role of parent phenotype in parent-mediated language interventions for autism	\$757,019	Q4.L.D	Northwestern University
5/5-The Autism Biomarkers Consortium for Clinical Trials	\$757,490	Q1.L.B	Yale University
The Elongation Hypothesis of Autism	\$760,000	Q2.Other	University of North Carolina
Comparing Behavioral Assessments Using Telehealth for Children with Autism	\$765,567	Q5.L.A	UNIVERSITY OF IOWA
Autism genetics: homozygosity mapping and functional validation	\$765,736	Q3.L.B	CHILDREN'S HOSPITAL CORPORATION
Longitudinal MRI Study of Brain Development in Fragile X	\$769,619	Q2.S.D	STANFORD UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder	\$770,599	Q2.L.A	University of California, Davis
The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype	\$771,520	Q2.L.A	SAN DIEGO STATE UNIVERSITY
Addressing systemic health disparities in early ASD identification and treatment	\$777,470	Q1.S.C	University of Massachusetts, Boston
Administrative Core	\$786,468	Q7.Other	Yale University
2/2 Somatic mosaicism and autism spectrum disorder	\$796,055	Q2.S.G	Yale University
Improving Accuracy and Accessibility of Early Autism Screening	\$796,060	Q1.S.B	TOTAL CHILD HEALTH, INC.
2/5-The Autism Biomarkers Consortium for Clinical Trials	\$804,222	Q1.L.B	CHILDREN'S HOSPITAL CORPORATION
Single-cell approaches to deconvolution of disease-associated signals	\$817,969	Q2.Other	University of California, San Diego
ASD Parent Trainer: Online coaching for parents of children with autism (APT)	\$843,308	Q5.L.C	IRIS MEDIA, INC.
A Screen-Refer-Treat (SRT) Model to Promote Earlier Access to ASD Intervention	\$846,853	Q1.S.B	University of Washington
Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease	\$862,077	Q2.S.G	ROCKEFELLER UNIVERSITY
Neuronal Correlates of Autistic Traits in ADHD and Autism	\$870,670	Q2.Other	New York University
Data Coordinating Core	\$891,882	Q7.Other	Yale University
A Metabolism-Based Test to Diagnose Autism Spectrum Disorder and its Subtypes in Early Childhood	\$892,872	Q1.L.B	STEMINA BIOMARKER DISCOVERY, INC.
The Future of Genomics Medicine in Patient Care: Contributions from CHOP	\$906,296	Q3.L.B	Children's Hospital of Philadelphia
4/4 The Autism Sequencing Consortium: Autism gene discovery in the >20,000 exomes (supplement)	\$919,964	Q3.S.A	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Multigenerational Familial and Environmental Risk for Autism (MINERVA) Network	\$974,130	Q3.L.D	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Early identification and service linkage for urban children with autism	\$976,670	Q1.S.C	Boston University
Regulation of Neuroligins and Effects on Synapse Number and Function	\$995,177	Q2.Other	National Institutes of Health
The Role of Germline Mutation and Parental Age in Autism Spectrum Disorders	\$1,096,329	Q3.S.C	University of California, San Diego
Effects of Chronic Intranasal Oxytocin	\$1,105,938	Q4.S.B	University of California, Davis
THE CHARGE STUDY: CHILDHOOD AUTISM RISKS FROM GENETICS AND THE ENVIRONMENT	\$1,106,052	Q3.S.C	University of California, Davis
DETECTION OF ASD AT THE 1ST BIRTHDAY AS STANDARD OF CARE: THE GET SET EARLY MODEL	\$1,107,043	Q1.S.D	University of California, San Diego

Project Title	Funding	Strategic Plan Objective	Institution
The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,125,989	Q2.Other	National Institutes of Health
Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders	\$1,221,847	Q2.S.D	National Institutes of Health
The Autism Impact Measure: A New Tool for Treatment Outcome Measurement	\$1,247,415	Q1.L.B	University of Missouri
Functional Genomics of Human Brain Development	\$1,313,408	Q2.Other	Yale University
Early Biomarkers of Autism Spectrum Disorders in infants with Tuberous Sclerosis	\$1,360,955	Q1.L.A	CHILDREN'S HOSPITAL CORPORATION
PEDIATRIC BRAIN IMAGING	\$1,507,456	Q2.L.A	National Institutes of Health
Transcriptional and Epigenetic Signatures of Human Brain Development and Autism	\$1,518,927	Q3.S.J	Yale University
FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN	\$1,695,557	Q2.Other	National Institutes of Health
Data Acquisition and Analysis Core	\$1,776,927	Q7.Other	Yale University
Autism Risk, Prenatal Environmental Exposures, and Pathophysiologic Markers	\$1,798,242	Q3.S.C	University of California, Davis
1/2-Somatic mosaicism and autism spectrum disorder	\$1,800,263	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
Roles of Oxytocin and Vasopressin in Brain	\$1,866,157	Q4.S.B	National Institutes of Health
Clinical and Behavioral Phenotyping of Autism and Related Disorders	\$1,939,310	Q1.L.B	National Institutes of Health
Study of Oxytocin in Autism to Improve Reciprocal Social Behaviors (SOARS-B)	\$2,384,285	Q4.L.A	University of North Carolina
A Longitudinal MRI Study of Infants at Risk for Autism	\$2,401,906	Q2.L.A	University of North Carolina
Mobilizing Community Systems to Engage Families in Early ASD Detection & Services	\$2,519,829	Q1.S.C	Florida State University
Adaptive Interventions for Minimally Verbal Children with ASD in the Community	\$2,553,473	Q4.S.G	University of California, Los Angeles
Intervention effects of intensity and delivery style for toddlers with ASD	\$2,594,565	Q4.S.D	University of California, Davis
Multimodal Developmental Neurogenetics of Females with ASD	\$2,703,126	Q2.S.B	Yale University
Autism Genetics, Phase II: Increasing Representation of Human Diversity	\$2,715,972	Q3.S.D	University of California, Los Angeles
SUPPORT THE ONGOING OPERATIONS OF THE NATIONAL DATABASE FOR AUTISM RESEARCH - NDAR	\$4,343,675	Q7.H	OMNITEC SOLUTIONS, INC.
OFFICE OF THE SCIENTIFIC DIRECTOR	\$10,231,675	Q7.Other	National Institutes of Health

